**CHE244**

**Stoll**

**Spring 2020**

**Assignment #5 – Stepper Motors and XYZ Control – 15 points – Due May 1st**

Motion control is a critical element of many types of instrumentation. The essential components often involve some type of motor to provide the force needed to move objects from one location to another. For example, in a syringe pump a motor turns a screw that pushes or pulls the syringe plunger into or out of the syringe barrel. Please read through each of the following resources on this topic, and then complete the questions linked to the course webpage.

* Pages 439 and 440 from the Chapter 14 on Control (Enke text)
* [Introduction to Stepper Motors](https://www.omega.com/en-us/resources/stepper-motors) from Omega Engineering
* [Basics of Motion Control](https://www.labmotioncontrollers.com/motion-basics-motorized-linear-stages) from Laser Lab Source